

SATELLITE WORKSHOP

DAPHNE4NFDI: Science driven data management solutions for the user community

24.01.2022

The data volumes and data rates generated by state-of-the-art high frame rate multi-megapixel detectors demand new approaches to how users manage their experimental data. There is a desperate need for user-oriented tools to help users manage their large datasets, from data collection through to analysis, publication and long-term archiving. Meanwhile, the trend to request data associated with publications be made openly available and repeatable the development of user-focused tools to facilitate and simplify this process. This satellite engages with users to determine the data management tools needed to improve their research data management workflows. It forms a part of the Daphne4NFDI project, an initiative funded as a part of the German NFDI program to develop infrastructures to serve the future data management needs of the photon and neutron science community.

PROGRAMME

Chair: Bridget Murphy (Kiel University)

13:00 Anton Barty (DESY, DAPHNE Speaker)
The DAPHNE4NFDI project

13:15 Tom Arnold (ESS)
Orso - The Open Reflectometry Standards Organisation initiative from the association for reflectometry

13:40 Axel Scheiding (Kiel University)
In search of the „perfect“ ELN (electronic lab notebook)

14:00 Speaker Carlo Minotti (PSI)
The SciCat data portal

14:20 Alejandra Gonzalez-Beltran (STFC)
The ICAT project: A modular ecosystem of tools for large-scale facilities data management

14:40-15:10 Break

Chair: Astrid Schneidwind (Jülich)

15:10 Alexander Guda (Southern Federal University)
Online XAS-data analysis using machine learning algorithms

15:30 Thomas Holm Rod (ESS)
easydiffraction.org: Making diffraction data analysis and modelling easy

15:50 Dr. Stefan Kowarik (Uni Graz)
Neural network based co-refinement of XRR data enables sparse data sampling

16:10-16:45 Discussion and community engagement